CJ-8DI8DO-MP

8×DI + 8×DO + 2×100M Ethernet Ports DIN Rail PNP Remote I/O



- 8 × DI channels, wet contact input (PNP). Support input filtering and input hold, ensuring signal stability and measurement accuracy
- 8 × DO channels, wet contact output (PNP)
- 2 × 100M copper ports
- Support Modbus TCP protocol. Support remote acquisition of DI channel status and remote control of DO channel status via a Modbus TCP master
- Support multiple Modbus function codes, including 0x02, 0x03, and 0x04 for DI, and 0x01, 0x03, 0x05, 0x06, 0x0F, and 0x10 for DO
- Support multiple configuration software connections to expand PLC controller I/O points
- DC 9~36V power input, reverse polarity protection
- High-strength aluminum alloy housing, IP40-rated housing protection
- -40℃~75℃ operating temperature range

Product Description

CJ-8DI8DO-MP is an all-in-one remote I/O controller supporting the Modbus TCP protocol, featuring 8 PNP-type digital input channels and 8 PNP-type digital output channels. It enables reliable acquisition and control of I/O status over Ethernet networks using Modbus TCP.

The device provides 2×10/100 Mbps Ethernet ports, 8×DI inputs, 8×DO outputs, and supports a single DC 9~36 V power input, making it suitable for flexible industrial deployments. Built with industrial-grade components and a high-standard system design, CJ-8DI8DO-MP adopts a 35 mm DIN-rail mounting structure and a high-strength aluminum alloy enclosure. Its fanless dissipation design ensures stable operation across a wide temperature range from –40°C to +75°C, delivering excellent durability and reliability in harsh industrial environments.

CJ-8DI8DO-MP supports an integrated web-based management interface and a variety of system and network functions, including Modbus TCP communication, hardware watchdog, DI input filtering, DO control, power-on state retention, I/O status monitoring, network diagnostics, DHCP client, user authentication, system information management, online reboot, and firmware upgrade.

This industrial I/O module has passed comprehensive testing, including functional verification, high- and low-temperature testing, electrical safety, and EMC compliance, ensuring stable communication and dependable operation in complex network and industrial scenarios. CJ-8DI8DO-MP is widely applicable to industries such as integrated energy systems, smart cities, intelligent transportation, smart factories, and industrial automation.

Technical Specifications

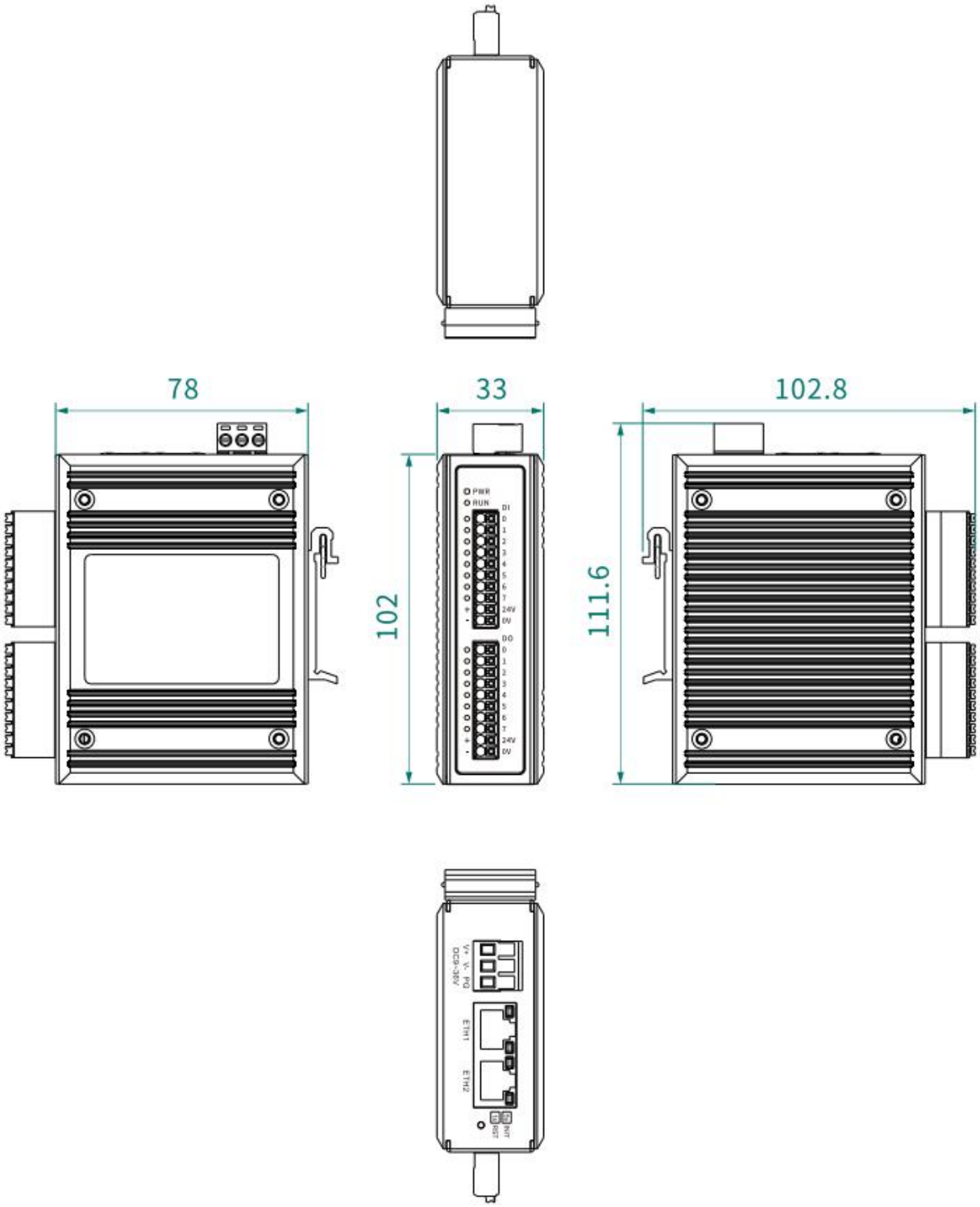
Software	
Management	Support Modbus TCP protocol, up to 8 Modbus TCP master stations connected simultaneously Support Modbus watchdog time, TCP timer keep alive Support DI input filtering, input hold Support DO state control, restart hold Support DI and DO state monitoring
System Management	Support static IP, DHCP client Support user password, system information Support network log remote host monitoring Support online restart, factory reset, and device upgrade
Interface	
100M Copper Port	2 × 10/100Base-T(X) auto-sensing RJ45 copper ports full/half duplex, auto MDI/MDI-X
DI	Number of channels: 8 × DI digital inputs Connection method: 10-bit 3.5mm pitch terminal blocks Modbus function code: 02, 03, 04 Rated voltage: DC24V (DC18~30V) Input type: wet contact NPN (Logic level 0: no external power input; Logic level 1: DC 18~30V external power input) Input filtering: 0~20ms Isolation protection: 500VAC (Opto-isolation)

DO	Number of channels: 8 × DO digital outputs Connection method: 10-bit 3.5mm pitch terminal block Modbus function code: 01, 03, 05, 06, 15, 16 Rated voltage: DC24V (DC18~30V) Output type: wet contact NPN Rated current: 500mA (single channel) Load type: resistive load, inductive load Isolation protection: 500VAC (Opto-isolation) Interface protection: overvoltage, overcurrent, overload protection
Button	One-click restart or factory reset
Indicators	Power indicator, operation indicator, DI indicator, DO indicator, copper port speed and connection status indicator
Power Supply	
Power Input	DC 9~36V
Power Consumption	<1.5W @DC24V (Full load)
Connection	3-pin terminal block with 5.08mm pitch
Protection	Reverse polarity protection
Physical Characteristics	
Dimensions	102×33×78 mm (excluding DIN Rail mounting clip and connector)
Installation	Easy installation on 35mm DIN rails
Protection	High-strength aluminum alloy housing, IP40 protection grade
Weight	About 0.27 kg
Working Environment	
Operating Temperature	-40℃~+75℃

Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (power supply: common mode ±2kV, differential mode ±1kV; Ethernet port: common mode ±4kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power supply: ±4kV; Ethernet port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Copper Port	DI	DO	Input Voltage
CJ-8DI8DO-MP	2	8	8	DC 9~36V

Contact Us

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